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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR JOHANNES KNOBLICH	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/462,961	0-	4/10/2000		GK-ZEI-3075	
26418	7590	03/21/2003			_
REED SMI	•		EXAMINER		
ATTN: PATENT RECORDS DEPARTMENT 599 LEXINGTON AVENUE, 29TH FLOOR				ROBINSON, MARK A	
NEW YORK, NY 10022-7650				ART UNIT	PAPER NUMBER
				2872	·

DATE MAILED: 03/21/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	An -
	Appli ation No.	pplicant(s)
,	09/462,961	KNOBLICH, JOHANNES
Office Action Summary	Examiner	Art Unit
`. 	Mark A. Robinson	2872
Th MAILING DATE of this communication	nappars on the coversh tw	ith the correspondenc address
Period for Reply A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 Cf after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the complex of the second period for reply will, by the second period for reply will be second period for reply	ON. FR 1.136(a). In no event, however, may a lon. a reply within the statutory minimum of thineriod will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status	. 00 / 2002	
1) Responsive to communication(s) filed on		
<u></u>	This action is non-final.	Mana
 Since this application is in condition for a closed in accordance with the practice ur Disposition of Claims 		
4) Claim(s) 21-26 and 28-46 is/are pending	in the application.	
4a) Of the above claim(s) 21-24,33-35 and	d 37-39 is/are withdrawn from	consideration.
5) Claim(s) is/are allowed.		
6) Claim(s) 25,26,28-32,36 and 40-46 is/are	rejected.	
7) Claim(s) is/are objected to.	•	
8) Claim(s) are subject to restriction a	nd/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Exam	miner.	
10)☐ The drawing(s) filed on is/are: a)☐ :	accepted or b) objected to by t	he Examiner.
Applicant may not request that any objection		·
11)☐ The proposed drawing correction filed on _		lisapproved by the Examiner.
If approved, corrected drawings are required		
12) The oath or declaration is objected to by th	e Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:		
1. Certified copies of the priority docur	ments have been received.	
2. Certified copies of the priority docur	ments have been received in A	pplication No
 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for a section for a sectio	al Bureau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for don	nestic priority under 35 U.S.C.	§ 119(e) (to a provisional application).
a) The translation of the foreign language 15) Acknowledgment is made of a claim for dor	e provisional application has b	een received.
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-946) 3) Information Disclosure Statement(s) (PTO-1449) Paper No.	8) 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 25,26,28-32,36 and 40-46 are rejected under 35
U.S.C. 112, second paragraph, as being indefinite for failing to
particularly point out and distinctly claim the subject matter
which applicant regards as the invention.

Claims 40,45 and 46 state that "no direct reflection of illumination light" or "substantially no direct reflection of illumination light" is incident into the illumination channels. However, the amount of reflected light which falls into the observation channels varies depending upon the reflective properties of the sample being illuminated (this fact was alluded to on page 5 of applicant's remarks), and the sample itself is not presumed to be part of the claimed combination. Accordingly, the metes and bounds of the claims are unclear.

Further, applicant has presented new claim 46 in order to cover instances where fluorescence is not produced in the sample. Claim 46 also states that "substantially no direct reflection of illumination light falls into the observation channels." However, on page 4 of the response, applicant states that the device of claim 40 operates only by light fluorescing from the sample into the observation channels, i.e. not by

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directly reflected light. If this were not the case, it would appear that the newly added feature would be a misdescription of the invention since figs. 4-6 appear to show light being "directly" reflected back up into the observation channel.

Claims 40 and 46 include virtually the same structural limitations. Accordingly, it is unclear how the structural features of claim 46 can produce an observed image since it does not function via fluorescence. In other words, if both of these claims include the same structural features, it is unclear how both claims can define an operable device if they function via different principles, i.e. fluorescence and non-fluorescence.

If the device of claim 40 requires fluorescence for viewing, it seems that the device of claim 46 would also require fluorescence in order to be operable since neither device functions via direct reflection.

Inasmuch as the claims are able to be understood in light of the 112 rejections made above, the following rejection(s) apply:

Claim Rejections - 35 USC § 103

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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3. Claims 40,25,26,28,29,36,41 and 43-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Siersch made of record.

The limitations of these claims are either met by or obvious over Siersch as discussed in the previous office action. Regarding claims 40,45 and 46, Siersch shows in fig. 3 that no direct reflection or substantially no direct reflection of light reaches the observation channels. Using the law of reflection, light incident from an illumination channel at the angle shown would be directly reflected at an equal angle back toward the opposite illumination channel, thus satisfying the limitation that "no direct reflection of illumination light falls into the observation channels."

4. Claims 30-32 rejected under 35 U.S.C. 103(a) as being unpatentable over Siersch in view of Takagi et al, both made of record.

These claims stand rejected as discussed in the previous office action.

5. Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over Siersch in view of Takagi et al and Greenberg, all made of record.

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This claim stands rejected as discussed in the previous office action.

Response to Arguments

6. Applicant's arguments filed 1/8/03 have been fully considered but they are not persuasive.

Applicant has argued that Siersch does not meet the limitations concerning direct reflection found in amended claim 40 and new claims 45 and 46, and that the illumination and observation channels of Siersch are not in perpendicular planes.

However, in light of the 112 rejection above, it is seen that Siersch meets the structural requirements of the claims in question. Siersch shows at least one angled illumination channel(14,21) which is located in a plane perpendicular to a plane containing observation channels(13). Note the vertical and horizontal lines shown in the cross sectional drawing of fig. 3 taken along line A-B. These lines show two vertical planes (relative to the main drawing of fig. 3) which are perpendicular to one another that contain the illumination and observation channels, thus satisfying this limitation of the claims.

Further, as noted above, Siersch meets the limitations concerning "no direct reflection..." as they are presently set

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forth in the claims, since light from an illumination channel would be directly reflected back toward the other illumination channel, thus avoiding incidence upon the observation channels.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Robinson whose telephone number is (703) 305-3506.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cassandra Spyrou can be reached at (703) 308-1687. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

MR

3/19/03

MARK A. ROBINSON PRIMARY EXAMINER